

IN THE CLAIMS

Please amend the claims as follows:

Claims 1-30 (Canceled).

Claim 31 (Currently Amended): A molded article, obtained by molding a resin composition into a shape and thereafter exposing the shape to an active energy ray to crosslink the resin composition, wherein the resin composition comprises an addition polymerization block copolymer (I) and a polyolefin resin (II), wherein:

the addition polymerization block copolymer (I) is at least one copolymer selected from the group consisting of a block copolymer comprising at least one polymer block A and at least one polymer block B and a hydrogenated product thereof;

the polymer block A comprises an aromatic vinyl compound unit comprising at least 1% by mass of an alkylstyrene-derived structural unit (a) in which at least one alkyl group having 1 to 8 carbon atoms is bound to a benzene ring; and the polymer block B comprises a conjugated diene compound unit, wherein 70% or more of the carbon-carbon double bonds of the polymer block B are hydrogenated; and

at least the moiety of polymer block A can undergo crosslinking upon exposure to an active energy ray,

wherein the polyolefin resin (II) is at least one polyolefin selected from the group consisting of a high density polyethylene, a middle density polyethylene, a low density polyethylene and an ethylene- α -olefin copolymer, and

the addition polymerization block copolymer (I) and the polyolefin resin (II) are present in a mass ratio of 90/10 to 1/99.

Claim 32 (Previously Presented) The molded article according to claim 31, wherein the alkylstyrene-derived structural unit (a) in which the at least one alkyl group having 1 to 8 carbon atoms that is bound to a benzene ring is a p-methylstyrene unit.

Claim 33 (Previously Presented): The molded article according to claim 31, wherein the active energy ray is an electron beam.

Claim 34 (Previously Presented): The molded article according to claim 32, wherein the active energy ray is an electron beam.

Claim 35 (Previously Presented): The molded article according to claim 31, wherein the resin composition further comprises a photopolymerization initiator.

Claim 36 (Previously Presented): The molded article according to claim 32, wherein the resin composition further comprises a photopolymerization initiator.

Claim 37 (Previously Presented): The molded article according to claim 31, wherein the polymer block A further comprises an aromatic vinyl compound unit comprising at least one of styrene and α -methylstyrene.

Claim 38 (Previously Presented): The molded article according to claim 31, wherein the polymer block A comprises at least 40% by mass of said alkylstyrene-derived structural unit (a).

Claim 39 (Previously Presented): The molded article according to claim 31, wherein the polymer block A is present in said addition polymerization block copolymer (I) in an amount of 10 to 40% by mass.

Claim 40 (Previously Presented): The molded article according to claim 31, wherein the conjugated diene compound of polymer block B comprises at least one butadiene and isoprene.

Claim 41 (Previously Presented): The molded article according to claim 31, wherein the addition polymerization block copolymer (I) has a number-average molecular weight of from 40,000 to 300,000.

Claim 42 (Previously Presented): The molded article according to claim 31, wherein the addition polymerization block copolymer (I) and the polyolefin resin (II) are present in a mass ratio of 80/20 to 20/80.

Claim 43 (Previously Presented): The molded article according to claim 31, wherein the polyolefin resin (II) is at least one polyolefin selected from the group consisting of a high density polyethylene, a middle density polyethylene and a low density polyethylene.

Claim 44 (Currently Amended): A method for making a molded article, comprising:
molding a resin composition into a desired shape; then, after the molding
crosslinking the resin composition by exposing the resin composition to an active
energy ray;

wherein the resin composition comprises an addition polymerization block copolymer (I) and a polyolefin resin (II);

wherein the addition polymerization block copolymer (I) is a block copolymer comprising at least one polymer block A and at least one polymer block B, and the hydrogenated products thereof;

wherein the polymer block A comprises an aromatic vinyl compound unit comprising at least 1% by mass of an alkylstyrene-derived structural unit (a) in which at least one alkyl group having 1 to 8 carbon atoms is bound to a benzene ring, and the polymer block B comprises a conjugated diene compound unit, wherein 70% or more of the carbon-carbon double bonds of the polymer block B are hydrogenated;

wherein at least the alkylstyrene-derived structural unit (a) of the polymer block A can undergo crosslinking upon exposure to an active energy ray;

wherein the polyolefin resin (II) is at least one selected from the group consisting of a high density polyethylene, a middle density polyethylene, a low density polyethylene, a polypropylene, an ethylene-propylene copolymer, and an ethylene- α -olefin copolymer; and

wherein the addition polymerization block copolymer (I) and the polyolefin resin (II) are present in a mass ratio of 90/10 to 1/99.

Claim 45 (New): The molded article according to claim 31, wherein the polymer block A of the addition polymerization block copolymer (I) is not hydrogenated.

Claim 46 (New): The method according to claim 44, wherein the polymer block A of the addition polymerization block copolymer (I) is not hydrogenated.

Claim 47 (New): The molded article according to claim 31, wherein 95% of the carbon-carbon double bonds are hydrogenated in polymer block B.

Claim 48 (New): The method of claim 44, wherein 95% of the carbon-carbon double bonds are hydrogenated in polymer block B.

Claim 49 (New): The molded article according to claim 31, wherein the polymer block A comprises units of styrene and an alkyl substituted styrene.

Claim 50 (New): The method of claim 44, wherein the polymer block A comprises units of styrene and an alkyl substituted styrene.